

CLAIMS

1. A writing instrument (1) comprising:
 - a body (2)-provided with an ink reservoir-(3);
 - an inker element (16)-mounted on the body (2);and
 - a feeder device (19) comprising:
 - a duct (27) connecting the reservoir (3) to the inker element (16) and opening out into the reservoir (3) via an opening (29) , the duct (27) presenting an inside wall (28); and
 - a valve (22) having a tab (32) received in said duct, the tab being extended by a head (31);

the valve (22) is mounted to slide between a closed position in which said head (31) is pressed against a shoulder (30) bordering said opening (29) so as to prevent ink from flowing, and an open position in which the head (31) is located at least in part away from the shoulder (30) so as to enable ink to flow through the opening (29), wherein the instrument being characterized in that a gap (35) is formed between the tab (32) and the inside wall (28) of the duct (27) , and in that the tab (32) projects from the duct (27) towards the inker element (16).
2. A writing instrument (1) according to claim 1, in which the valve (22) is made of, or is coated in, a hydrophobic material.
3. A writing instrument (1) according to claim 2, in which the valve (22) is made of, or coated, in silicone.
4. A writing instrument (1) according to any one of claims 1 to 3, in which the duct (27) is rectangular in section, the tab (32) being pyramid-shaped.
5. A writing instrument (1) according to any one of claims 1 to 4, in which the feeder device (19) comprises a sleeve (20) in which said opening (29) is formed, which sleeve is engaged on a nozzle (21) of the reservoir (3) and has the valve (22) mounted therein.

6. A writing instrument (1) according to any one of claims 1 to 4, in which the valve (22) is provided with through holes (36) provided in the head (31) in the vicinity of the tab (32).
7. A writing instrument (1) according to claim 6, in which the holes (36) are in the form of slots having parallel edges (37, 38), the valve (22) presenting a peripheral portion (39) that is stationary relative to the body (2) and a central portion (40) including the tab (32), said central portion (40) being movable between a closed position in which the edges (37, 38) of each slot (36) coincides, and an open position in which the edges (37, 38) of the slots (36) are offset so as to allow the ink to flow.
8. A writing instrument (1) according to any one claims 1 to 7, in which the inker element (16) is continuously in contact with the tab (32).
9. A writing instrument (1) according to any one claims 1 to 8, in which the inker element (16) is movable between a writing position in which it urges the valve (22) towards its open position to allow the ink to flow, and a rest position in which it allows the valve (22) to occupy its closed position.
10. A writing instrument (1) according to claim 9, in which the inker element (16) is secured on a support (13) mounted to slide relative to the body (2) between a writing position in which the inker element (16) urges the valve (22) towards its open position to allow the ink to flow, and a rest position in which the inker element (16) enables the valve (22) to occupy its closed position.
11. A writing instrument (1) according to claim 10, in which the support (13) is urged towards its rest position by a return spring.
12. A writing instrument (1) according to claim 11, in which the return spring comprises a spring blade (42) integrated in the support (13) and bearing against a wall (25) that is stationary relative to the body (2).

13. A writing instrument (1) according to any one of claims 1 to 12, in which the body (2) extends along a main axis (X) , and the inker element (16) is a roller mounted to rotate about an axis (A1) that is perpendicular to said main axis (X).

14. A writing instrument (1) according to claim 13, in which the inker element (16) is in peripheral contact with a writing roller (17) mounted to rotate about an axis (A2) parallel to the axis (A1) of the intermediate roller, and suitable for coming into contact with a writing medium.

15. A writing instrument (1) according to claim 14, in which the diameter of the inker roller (16) is smaller than the diameter of the writing roller (17).